

SEP 20 2004

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete If Known	
Sheet	1	of	10	Application Number	10/670,162
				Filing Date	September 23, 2003
				First Named Inventor	PAVLOVSKAIA, ELENA
				Art Unit	2125
				Examiner Name	Elliot L. Frank
				Attorney Docket Number	018563-004620US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
AS	AA	2,467,432	04-19-1949	Kesling	
AS	AB	3,660,900	05-09-1972	Andrews	
AS	AC	3,860,803	01-14-1975	Levine	
AS	AD	3,916,526	11-04-1975	Schudy	
AS	AE	3,950,851	04-20-1976	Bergersen	
AS	AF	4,014,096	03-29-1977	Dellinger	
AS	AG	4,195,046	03-25-1980	Kesling	
AS	AH	4,324,546	04-13-1982	Heitlinger et al.	
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AS	AJ	4,478,580	10-23-1984	Barrut	
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AS	AM	4,575,805	03-11-1986	Moermann, et al.	
AS	AN	4,611,288	09-09-1986	Duret et al.	
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AS	AT	4,793,803	12-27-1988	Martz	
AS	AU	4,798,534	01-17-1989	Breads	
AS	AV	4,837,732	06-06-1989	Brandestini et al.	
AS	AW	4,850,864	07-25-1989	Diamond	
AS	AX	4,856,991	08-15-1989	Breads et al.	
AS	AY	4,936,862	06-26-1990	Walker et al.	
AS	AZ	4,937,928	07-03-1990	van der Zel	
AS	BA	4,964,770	10-23-1990	Steinblchler et al.	
AS	BB	4,975,052	12-04-1990	Spencer et al.	
AS	BC	5,011,405	04-30-1991	Lemchen	
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AS	BJ	5,121,333	06-09-1992	Riley et al.	
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AS	BM	5,131,844	07-21-1992	Marinaccio et al.	
AS	BN	5,139,419	08-18-1992	Andreiko et al.	
AS	BO	5,184,306	02-02-1993	Erdman et al.	

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AS	BP	5,186,523		02-16-1993	Breads et al.	
AS	BQ	5,257,203		10-26-1993	Riley et al.	
AS	BR	5,273,429		12-28-1993	Rekow et al.	
AS	BS	5,278,756		01-11-1994	Lemchen et al.	
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AS	BU	5,340,309		08-23-1994	Robertson	
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AS	BW	5,368,478		11-29-1994	Andreiko et al.	
AS	BX	5,382,164		01-17-1995	Stern	
AS	BY	5,395,238		03-07-1995	Andreiko et al.	
AS	BZ	5,431,562		11-11-1995	Andreiko et al.	
AS	CA	5,440,496		08-08-1995	Andersson et al.	
AS	CB	5,447,432		09-05-1995	Andersson et al.	
AS	CC	5,452,219		09-19-1995	Dehoff et al.	
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AS	CE	5,456,600		10-10-1995	Andreiko et al.	
AS	CF	5,474,448		12-12-1995	Andreiko et al.	
AS	CG	5,518,397		05-21-1996	Andreiko et al.	
AS	CH	5,533,895		07-09-1996	Andreiko et al.	
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AS	CJ	5,549,476		08-27-1996	Stern	
AS	CK	5,587,912		12-24-1996	Andersson et al.	
AS	CL	5,605,459		02-25-1997	Kuroda et al.	
AS	CM	5,607,305		03-04-1997	Andersson et al.	
AS	CN	5,645,421		07-08-1997	Slootsky	
AS	CO	5,655,653		08-12-1997	Chester	
AS	CP	5,683,243		11-04-1997	Andreiko et al.	
AS	CQ	5,733,126		03-31-1998	Andersson et al.	
AS	CR	5,740,267		04-14-1998	Echerer et al.	
AS	CS	5,975,893		11-02-1999	Chishti et al.	

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
AS	CT	EP	091,876	A1	10-19-1983	Duret		<input type="checkbox"/>
AS	CU	EP	299,490	A2	01-18-1989	Steinbichler et al.		<input type="checkbox"/>
AS	CV	EP	376,873	A2	07-04-1990	Shafir		<input type="checkbox"/>
AS	CW	EP	490,848	B1	06-17-1992	Andersson et al.		<input type="checkbox"/>
AS	CX	EP	541,500	A1	06-12-1998	Andersson et al.		<input type="checkbox"/>

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AS	CY	EP	731,673	B1	09-18-1998	Andersson et al.	<input type="checkbox"/>
AS	CZ	EP	774,933	B1	05-28-1997	Oden et al.	<input type="checkbox"/>
AS	DA	FR	2,652,256	A1	03-29-1991	Jourda	<input type="checkbox"/>
AS	DB	FR	2,369,828	A1	06-02-1978	Suyehiro	<input type="checkbox"/>
AS	DC	WO	90/08,512	A1	08-09-1990	Lemgren	<input type="checkbox"/>
AS	DD	WO	91/04,713	A1	04-18-1991	Jourda et al.	<input type="checkbox"/>
AS	DE	WO	94/10,935	A1	05-26-1994	Andreiko et al.	<input type="checkbox"/>
AS	DF	WO	98/44,865	A1	10-15-1998	Andersson	<input type="checkbox"/>
AS	DG	WO	98/58,596	A1	12-30-1998	Chishti et al.	<input type="checkbox"/>

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AS	DH	ALEXANDER et al., "The DigiGraph Work Station Part 2, Clinical Management," <i>JCO</i> (July 1990), pp. 402-407.			
AS	DI	ALTSCHULER et al., "Laser Electro-Optic System for Rapid Three-Dimensional (3D) Topographic Mapping of Surfaces," <i>Optical Engineering</i> , Vol. 20(6) (1981), pp. 953-961.			
AS	DJ	ALTSCHULER et al., "Measuring Surfaces Space-Coded by a Laser-Projected Dot Matrix," <i>SPIE Imaging Applications for Automated Industrial Inspection and Assembly</i> , vol. 182 (1979), p. 187-191.			
AS	DK	ALTSCHULER et al., "Analysis of 3-D Data for Comparative 3-D Serial Growth Pattern Studies of Oral-Facial Structures," Program and Abstracts of Papers, Feb. 1975, <i>Journal of Dental Research</i> , Vol. 54, IADR Abstracts 1979, 2 pages total.			
AS	DL	ALTSCHULER, "3D Mapping of Maxillo-Facial Prostheses," AADR Abstract #607, 1980, 2 pages total..			
AS	DM	American Association for Dental Research, Summary of Activities, March 20-23, 1980, Los Angeles, CA, p. 195.			
AS	DN	ANDERSSON et al., "Clinical Results with Titanium Crowns Fabricated with Machine Duplication and Spark Erosion," <i>Acta Odontologica Scandinavia</i> , vol. 47 (1989), pp. 279-286.			
AS	DO	BAUMRIND et al., "A stereophotogrammetric system for the detection of prosthesis loosening in total hip arthroplasty, Applications of Human Biostereometrics (NATO)," <i>Proceedings of the Society of Photo-Optical Instrumentation Engineers</i> , Vol. 166, July 9-13, 1978, pp. 112-123.			
AS	DP	BAUMRIND et al., "Mapping the Skull in 3-D, Reprinted from The Journal, <i>California Dental Association</i> , Vol. 48, No. 2 (1972 Fall Issue) 11 pages total.			
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AS	DU	BERNARD et al., "Computerized diagnosis in Orthodontics for Epidemiological Studies" (progress report), Abstracts of Papers, <i>Journal of Dental Research</i> ; Vol. 71, Special Issue March 1-14, 1992, pp. 28-36.			
AS	DV	BHATIA et al., "A Computer-Aided Design for Orthognathic Surgery," <i>British Journal of Oral and Maxillofacial Surgery</i> , Vol. 22 (1984), pp. 237-253.			
AS	DW	BIGGERSTAFF et al., "Computerized analysis of occlusion in the postcanine dentition," <i>American Journal of Orthodontics</i> , Vol. 61, No. 3 (Mar. 1972), pp. 245-254.			

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AS	DX	BIGGERSTAFF, "Computerized Diagnostic Setups and Simulations," <i>The Angle Orthodontist</i> , Vol. 40, No. 1 (Jan. 1970), pp. 28-36.	T ²	
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AS	EC	CHACONAS et al., "The DigiGraph Work Station, Part 1, Basic Concepts," <i>JCO</i> (June 1990), pp. 360-367.		
AS	ED	CHAFETZ et al., "Subsidence of the Femoral Prosthesis, A Stereophotogrammetric Evaluation," <i>Clinical Orthopaedics and Related Research</i> , No. 201 (December 1985), pp. 60-67.		
AS	EE	CHIAPPONE, "Constructing the gnathologic setup and positioner" <i>J. Clin. Orthod.</i> , 14:121-133, 1980.		
AS	EF	COTTINGHAM, "Gnathologic clear plastic positioner" <i>Am. J. Orthod.</i> , 55:23-31, 1969.		
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AS	EH	CRAWFORD, "CAD/CAM in the Dental Office: Does It Work?" <i>Canadian Dental Journal</i> , Vol. 57, No. 2 (Feb. 1991), pp. 121-123.		
AS	EI	CROOKS, "CAD/CAM Comes to USC," <i>USC Dentistry</i> , (Spring 1990) pp. 14-17.		
AS	EJ	CURETON, "Correcting malaligned mandibular incisors with removable retainers" <i>J. Clin. Orthod.</i> , 30:390-395, 1996.		
AS	EK	CURRY et al., "Integrated Three-Dimensional Craniofacial Mapping at the Craniofacial Research Instrumentation Laboratory/University of the Pacific," <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec. 2001), pp. 258-265.		
AS	EL	CUTTING et al., "Three-Dimensional Computer-Assisted Design of Craniofacial Surgical Procedures: Optimization and Interaction with Cephalometric and CT-Based Models," <i>Plastic and Reconstructive Surgery</i> , Vol. 77, No. 6 (June 1986), pp. 877-885.		
AS	EM	DCS Dental AG, "The CAD/CAM 'DCS Titan System' for Production of Crowns/Bridges" <i>DSC Production AG</i> , Jan. 1992, pp. 1-7.		

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AS	EN	DEFRANCO et al., "Three-Dimensional Large Displacement Analysis of Orthodontic Appliances," <i>J. Biomechanics</i> , Vol. 9 (1976), pp. 793-801.			
AS	EO	Dental Institute University of Zurich Switzerland, Program for International Symposium on Computer Restorations: State of the Art of the CEREC-Method, May 1991, 3 pages total.			
AS	EP	DenTrac Corporation, Dentrac document, pp. 4-13.			
AS	EQ	DURET et al., "CAD-CAM in Dentistry," <i>Journal of the American Dental Association</i> , Vol. 117 (Nov. 1988), pp. 715-720.			
AS	ER	DURET et al., "CAD/CAM Imaging in dentistry," <i>Current Opinion in Dentistry</i> , Vol. 1 (1991), pp. 150-154.			
AS	ES	DURET, "The Dental CAD/CAM, General Description of the Project," <i>Hennson International Product Brochure</i> , Jan. 1986., 18 pages total.			
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AS	EU	ECONOMIDES, "The Microcomputer in the Orthodontic Office," <i>JCO</i> , (Nov. 1979), pp. 767-772.			
AS	EV	ELSASSER, "Some observations on the history and uses of the Kesting positioner" <i>Am. J. Orthod.</i> , 36:368-374, 1950.			
AS	EW	FABER et al., "Computerized interactive orthodontic treatment planning," <i>Am. J. Orthod.</i> , Vol. 73, No. 1 (Jan. 1978), pp. 36-46.			
AS	EX	FELTON et al., "A computerized analysis of the shape and stability of mandibular arch form," <i>Am. Journal of Orthodontics and Dentofacial Orthopedics</i> , Vol. 92, No. 6 (Dec. 1987), pp. 478-483.			
AS	EY	FRIEDE et al., "Accuracy of Cephalometric Prediction in Orthognathic Surgery," <i>Abstract of Papers, Journal of Dental Research</i> , Vol. 70 (1987), pp. 754-760.			
AS	EZ	GIM-ALLDENT Deutschland, "Das DUX System: Die Technik" 4 pages total.			
AS	FA	GRAYSON, "New Methods for Three Dimensional Analysis of Craniofacial Deformity," Symposium: Computerized Facial Imaging in Oral and Maxillofacial Surgery, AAOMS Sept. 13, 1990, 3 pages total.			
AS	FB	GUESS et al., "Computer Treatment Estimates in Orthodontics and Orthognathic Surgery," <i>JCO</i> , (April, 1989), pp. 262-28.			
AS	FC	HEAVEN et al., "Computer-based Image Analysis of Artificial Root Surface Caries," "Automated Identification of Landmarks in Cephalometric Radiographs," <i>Abstracts of Papers, Journal of Dental Research</i> , Vol. 67, March 9-13, 1988, 2 pages total.			

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AS	FD	HOFFMANN et al., "Role of Cephalometry for Planning of Jaw Orthopedics and Jaw Surgery Procedures," (Article Summary in English, article in German), <i>Informationen</i> , (March 1991), pp. 375-396.			
AS	FE	HUCKINS, "CAD-CAM Generated Mandibular Model Prototype from MRI Data," <i>AAOMS</i> 1999, p. 96.			
AS	FF	Inside the ADA, <i>Journal Of The American Dental Assoc.</i> , Vol. 118 (March 1989) 9 pages total.			
AS	FG	JCO Interviews, "Craig Andreiko , DDS, MS on the Elan and Orthos Systems", JCO, (Aug. 1994), pp. 459-468.			
AS	FH	JCO Interviews, "Dr. Homer W. Phillips on Computers in Orthodontic Practice, Part 2," JCO, (Dec. 1983), pp. 819-831.			
AS	FI	JERROLD, "The problem, electronic data transmission and the law," <i>AJO-DO</i> , (Apr. 1988), pp. 478-479.			
AS	FJ	JONES et al., "An Assessment of the Fit of a Parabolic Curve to Pre- and Post-Treatment Dental Arches," <i>British Journal of Orthodontics</i> , Vol. 16 (1989), pp. 85-93.			
AS	FK	KAMADA et al., "Case reports on tooth positioners using LTV vinyl silicone rubber" <i>J. Nihon University School of Dentistry</i> , 26(1):11-29, 1984.			
AS	FL	KAMADA et al., "Construction of tooth positioners with LTV vinyl silicone rubber and some case reports" <i>J. Nihon University School of Dentistry</i> , 24(1):1-27, 1982.			
AS	FM	KANAZAWA et al., "Three-Dimensional Measurements of the Occlusal Surfaces of Upper Molars in a Dutch Population," <i>J. Dent Res.</i> , Vol. 63, No. 11 (Nov. 1984), pp. 1298-1301.			
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AS	FO	KESLING, "The philosophy of the tooth positioning appliance" <i>Am. J. Orthod. Oral. Surg.</i> , 31(6):297-304, 1945.			
AS	FP	KLEEMANN et al., "The speed positioner" <i>J. Clin. Orthod.</i> , 30:673-680, 1996.			
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT			
(use as many sheets as necessary)			
Sheet	8	of	10
			<i>Attorney Docket Number</i>
			018563-004620US

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
AS	FT	MCNAMARA et al., <i>Orthodontic and Orthopedic Treatment in the Mixed Dentition</i> , Needham Press, January 1993. pp.347-353.		T 2
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AS	GH	REKOW, "Computer-Aided Design and Manufacturing in Dentistry: A Review of the State of the Art," <i>The Journal of Prosthetic Dentistry</i> , Vol. 58, No. 4 (Oct. 1987), pp. 512-516.		
AS	GI	REKOW, "Dental CAD-CAM Systems: What is the State of the Art?" <i>Journal of the American Dental Assoc.</i> , Vol. 122 (1991), pp. 43-48.		

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				Filing Date	September 23, 2003
				First Named Inventor	PAVLOVSKAIA, ELENA
				Art Unit	2125
				Examiner Name	Elliot L. Frank
Sheet	9	of	10	Attorney Docket Number	018563-004620US

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AS	GJ	REKOW, "Feasibility of an Automated System for Production of "Dental Restorations," PhD Thesis, Univ. of Minnesota, Nov. 1988, 244 pages total.			
AS	GK	RICHMOND et al., Research Reports, "The development of a 3D Cast Analysis System," <i>British Journal of Orthodontics</i> , pp. 53-54.			
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AS	GO	SCHELLHAS et al., "Three-Dimensional Computer Tomography in Maxillofacial Surgical Planning," <i>Arch Otolaryngol Head Neck Surg.</i> Vol. 114 (April 1988), pp. 438-442.			
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AS	GQ	SHILLIDAY, "Minimizing finishing problems with the mini-positioner" <i>Am. J. Orthod.</i> 59:596-599, 1971			
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AS	GT	STOLL et al., "Computer-aided Technologies In Dentistry" (Article Summary in English, article in German), <i>Dtsch Zahnärztl Z</i> 45, 314-322, 1990.			
AS	GU	U.S. Department of Commerce, National Technical Information Service, "Automated Crown Replication Using Solid Photography SM," Solid Photography Inc. Melville NY, October 1977, 21 pages total.			
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AS	GW	U.S. Provisional Patent Application No. 60/050342, filed on June 20, 1997, 41 pages total.			
AS	GX	VAN DER LINDEN et al., Three-Dimensional Analysis of Dental Casts by Means of the Optocom," <i>J Dent Res.</i> July-August 1972, p. 1101.			
AS	GY	VAN DER LINDEN, "A New Method to Determine Tooth Positions and Dental Arch Dimensions," July-August 1972, p. 1104.			

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				<i>Art Unit</i>	2125
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AS	GZ	VAN DER ZEL, "Ceramic-fused-to-metal Restorations with a New CAD/CAM System," <i>Quintessence International</i> , vol. 24(11) (1993), pp. 769-778.		T ²
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